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PCT Application
PCT/JP2003/008360



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

519,571

Translation

Applicant's or agent's file reference NE+03P112	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/008360	International filing date (day/month/year) 01 July 2003 (01.07.2003)	Priority date (day/month/year) 02 July 2002 (02.07.2002)
International Patent Classification (IPC) or national classification and IPC H01L 21/205, C23C 16/01, 16/34, C30B 29/38		
Applicant NEC CORPORATION		

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
 These annexes consist of a total of 1 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 01 July 2003 (01.07.2003)	Date of completion of this report 15 December 2003 (15.12.2003)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Application No.
PCT/JP 03/08360

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-29, 31, 32	YES
	Claims		NO
Inventive step (IS)	Claims	1-29, 31, 32	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-29, 31, 32	YES
	Claims		NO

2. Citations and explanations

Document 1: EP 1271627 A2 (NEC Corp.), 2 January 2003
 Document 2: JP 2003-178984 A (NEC Corp.), 27 June 2003
 Document 3: JP 2002-343718 A (Matsushita Electric Industrial Co., Ltd.), 29 November 2002
 Document 4: JP 2002-050585 A (Hitachi Cable Co., Ltd.), 15 February 2002
 Document 5: JP 2001-223165 A (Hitachi Cable Co., Ltd.), 17 August 2001

Claims 1-29, 31 and 32

None of the documents cited in the international search report, except for documents 1 and 2 from the same applicant, discloses a process for manufacturing a group III nitride semiconductor substrate which includes a step of forming a group III nitride semiconductor layer including voids, on top of a film containing a metal element, and in contact therewith.